

**Appendix Table 5-28 S&E articles in astronomy, by region/country/economy: 1999–2013**

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
World	8,219.0	8,996.0	9,911.0	10,578.0	11,127.0	12,070.0	14,123.0	15,944.0	13,828.0	12,700.0	12,568.0	12,295.0	14,494.0	15,029.0	13,718.0
North America	2795.9	2983.1	3287.1	3302.5	3720.6	3927.8	4238.1	4784.2	4345.4	3793.4	3766.9	3790.0	4184.6	4320.4	3977.8
Canada	181.4	206.0	177.0	186.4	241.3	254.6	298.0	338.1	294.0	299.5	269.8	302.8	313.1	344.4	319.8
Mexico	72.2	102.6	137.2	135.9	180.7	118.3	154.6	150.3	203.3	154.0	142.3	131.4	247.0	130.1	124.5
United States	2,542.3	2,674.6	2,972.9	2,980.2	3,298.6	3,554.9	3,785.4	4,295.8	3,848.0	3,339.8	3,354.8	3,355.8	3,624.5	3,845.9	3,533.4
Central America/Caribbean	0.6	1.0	1.5	0.1	0.0	4.2	1.0	5.1	4.4	2.2	3.0	2.2	1.4	1.5	9.9
Antigua and Barbuda	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bahamas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Barbados	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Belize	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Costa Rica	0.5	1.0	0.5	0.0	0.0	1.0	0.0	0.0	0.3	1.2	0.8	0.9	0.1	1.1	4.9
Cuba	0.0	0.0	1.0	0.0	0.0	3.0	0.8	3.6	3.6	0.7	1.9	0.7	0.6	0.3	4.8
Dominica	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dominican Republic	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
El Salvador	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grenada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guatemala	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haiti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Honduras	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Jamaica	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nicaragua	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0
Panama	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0
St. Kitts and Nevis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Lucia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Vincent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trinidad and Tobago	0.0	0.0	0.0	0.1	0.0	0.2	0.2	1.5	0.6	0.1	0.1	0.3	0.3	0.0	0.0
South America	204.2	217.0	257.3	295.9	279.8	323.3	374.8	493.1	367.7	415.3	438.5	364.5	503.4	408.3	417.5
Argentina	54.3	50.2	72.9	87.3	70.1	83.6	92.1	99.5	83.8	94.7	95.5	91.5	137.6	76.9	85.7
Bolivia	1.2	0.0	0.1	0.0	0.2	0.1	0.9	0.5	1.5	0.4	0.5	0.4	1.3	0.3	0.0
Brazil	95.5	109.0	99.8	118.0	117.6	132.6	161.3	209.2	141.6	155.2	171.9	137.2	176.7	170.1	154.8
Chile	45.0	52.1	67.3	75.8	82.9	87.0	106.5	161.5	128.9	145.6	134.9	128.3	160.0	142.5	164.0
Colombia	0.0	0.1	1.8	2.0	1.1	4.2	1.1	3.1	0.3	8.7	4.4	3.8	4.4	4.9	7.5
Ecuador	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	0.0	0.0	0.0	1.0	1.4	0.0
Guyana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paraguay	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Peru	0.1	0.0	0.5	0.6	1.2	2.2	1.7	1.1	1.2	0.2	0.7	0.4	5.4	2.7	0.7
Suriname	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uruguay	0.6	1.0	4.3	3.4	0.1	3.5	1.7	1.3	0.0	2.9	2.1	0.1	2.0	3.7	0.1
Venezuela	7.5	4.6	10.7	8.9	6.5	9.3	9.6	16.2	9.8	7.5	28.5	2.9	15.0	5.8	4.7
Europe	3,849.1	4,288.4	4,908.9	5,433.7	5,645.2	6,126.8	7,469.9	8,286.2	6,798.0	6,306.5	6,114.0	5,991.6	6,973.5	7,235.5	6,324.2
EU	3,260.1	3,609.2	4,150.3	4,569.4	4,893.7	5,381.0	6,429.9	7,343.9	5,898.5	5,546.4	5,236.0	5,288.2	5,946.4	6,380.2	5,433.5
Austria	43.7	46.6	45.3	88.5	67.0	76.2	121.8	95.7	71.9	75.1	73.1	64.3	80.6	63.9	69.6
Belgium	52.7	73.1	85.7	109.4	102.4	130.5	159.4	162.6	140.9	135.6	128.2	131.8	131.0	145.4	143.8

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Bulgaria	16.0	15.1	24.7	23.0	25.3	21.8	20.3	19.7	22.3	44.9	25.9	33.8	26.2	44.9	19.7
Croatia	4.8	6.8	4.9	7.7	7.6	10.1	6.7	13.8	12.6	7.4	8.0	5.8	16.4	10.9	7.6
Cyprus	0.0	0.0	0.0	0.5	1.1	0.1	0.6	2.2	0.1	0.2	1.1	0.2	0.8	1.1	2.8
Czech Republic	43.1	36.5	53.5	66.8	55.9	53.0	91.3	136.0	61.9	86.4	73.9	86.0	120.1	179.7	116.1
Denmark	47.0	53.0	41.8	59.3	71.6	63.5	62.2	84.8	49.7	47.8	40.1	51.3	66.8	77.0	59.1
Estonia	8.2	7.5	9.7	13.1	9.3	7.3	16.1	17.0	14.7	16.1	7.3	8.4	16.2	17.6	11.2
Finland	43.6	49.6	61.7	75.0	51.7	61.6	91.0	100.7	67.0	59.5	71.7	50.0	67.0	69.3	61.7
France	483.8	565.8	670.8	669.7	727.9	847.4	1,006.4	1,242.8	834.1	853.5	791.6	854.3	818.7	910.6	819.4
Germany	634.2	727.7	813.8	863.3	938.0	1,103.4	1,401.1	1,334.6	1,263.1	1,207.8	1,056.7	1,033.8	1,203.1	1,383.2	1,073.8
Greece	36.1	46.3	54.0	73.1	59.0	68.5	82.3	126.9	60.7	59.3	82.0	54.2	64.4	74.8	62.2
Hungary	23.5	30.2	22.9	38.4	31.7	47.1	30.5	52.0	56.4	45.6	46.2	31.3	45.4	52.4	60.9
Ireland	28.8	24.7	14.8	19.3	23.6	34.1	54.4	34.6	32.1	33.6	30.5	33.2	41.1	37.2	31.1
Italy	498.6	535.6	642.9	663.4	714.2	804.8	919.9	1,108.8	972.1	816.1	878.4	828.4	1,006.9	944.1	831.2
Latvia	1.0	1.6	2.0	0.0	4.7	0.5	3.2	0.5	0.6	1.9	1.7	3.5	7.0	5.0	5.4
Lithuania	5.3	4.5	7.6	13.5	25.4	6.7	16.9	11.5	8.1	19.1	10.3	10.6	7.2	11.4	9.6
Luxembourg	1.0	0.3	0.2	1.1	0.4	0.0	0.4	2.0	1.9	0.3	0.7	0.2	0.4	0.0	0.1
Malta	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.4	0.0	0.0	0.0	0.3	0.3	1.2
Netherlands	206.5	240.8	239.5	298.2	320.1	360.9	395.1	403.3	317.0	309.4	255.6	242.6	264.9	316.0	280.2
Poland	130.1	132.7	145.7	163.4	143.2	141.3	163.6	161.8	150.5	140.2	143.2	141.7	169.9	164.7	146.2
Portugal	13.6	20.1	20.9	23.3	30.3	33.8	32.5	90.2	41.8	65.2	39.8	32.9	42.3	82.1	46.5
Romania	3.3	4.3	3.1	11.8	6.1	10.9	11.3	12.4	10.7	14.3	13.2	12.2	23.0	17.2	15.8
Slovakia	5.6	7.3	13.7	44.2	26.7	18.7	29.2	20.4	23.2	33.4	28.6	32.0	47.2	54.2	32.5
Slovenia	0.4	3.1	2.3	4.0	7.2	5.2	8.6	5.9	2.5	5.9	2.4	3.8	6.6	4.6	7.4
Spain	220.1	229.2	329.2	321.8	384.3	348.0	480.3	595.4	471.1	442.8	413.0	457.8	468.6	537.4	464.5
Sweden	59.8	72.3	93.3	82.9	85.1	87.7	131.3	160.9	113.0	108.8	78.6	123.7	125.7	123.0	108.0

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United Kingdom	649.2	674.6	746.2	834.5	974.1	1,037.6	1,093.7	1,346.9	1,098.2	916.2	934.2	960.4	1,078.6	1,052.4	945.5
Other Europe	589.0	679.2	758.6	864.3	751.5	745.8	1,040.0	942.2	899.5	760.0	878.0	703.4	1,027.2	855.3	890.6
Albania	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.7	0.0	1.3	0.0
Andorra	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Belarus	0.0	0.5	0.0	1.3	0.0	5.0	0.0	2.2	2.8	1.1	0.7	0.0	3.2	1.3	3.0
Bosnia and Herzegovina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Iceland	0.0	2.9	0.7	1.3	0.3	3.2	4.5	4.7	6.4	2.2	1.1	0.8	4.3	3.5	2.9
Kosovo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	0.0	0.3	0.0	0.3	0.0
Liechtenstein	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Macedonia	0.0	0.0	0.0	0.3	1.0	2.0	0.2	1.7	1.1	0.0	1.0	1.5	0.0	0.0	0.0
Moldova	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.0	1.9	0.0	0.8
Monaco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Montenegro	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Norway	16.4	25.7	22.0	20.3	30.0	28.6	63.4	37.4	50.2	26.2	26.7	15.8	37.0	27.8	40.2
Russia	393.8	482.3	546.2	617.7	500.3	481.9	659.1	578.7	568.6	453.5	596.4	446.9	700.9	513.8	568.9
San Marino	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Serbia	7.0	7.2	10.4	9.4	14.9	11.0	17.7	24.6	28.6	48.0	30.7	39.9	30.7	44.8	23.7
Serbia and Montenegro	0.0	0.0	0.0	0.0	0.0	1.5	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Switzerland	89.4	80.4	94.7	127.4	126.3	165.0	208.0	199.6	184.8	142.8	143.4	142.2	165.1	176.3	160.5
Ukraine	80.9	80.3	84.6	86.8	78.3	46.1	85.8	92.4	55.6	84.7	77.4	55.1	83.8	85.0	90.3
Vatican City	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.0
Yugoslavia	0.0	0.0	0.0	0.0	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle East	64.0	80.8	95.0	113.1	120.7	135.5	146.2	201.7	150.4	168.8	157.7	167.6	228.8	308.7	275.0

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Bahrain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.7	1.0	0.0	0.0	0.0
Gaza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iran	1.6	6.2	9.3	11.8	14.3	14.4	14.4	28.8	23.2	26.9	29.7	37.5	66.9	100.5	95.7
Iraq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.9	2.1
Israel	50.8	55.6	59.9	73.4	68.0	84.3	75.2	91.7	74.3	84.3	78.4	80.8	91.2	120.2	88.7
Jordan	0.0	2.5	0.3	0.0	0.3	1.0	1.1	0.1	1.0	0.6	1.5	0.2	0.5	1.5	1.0
Kuwait	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	1.0	0.3	0.1	0.3	0.0	0.0
Lebanon	0.3	2.1	0.5	1.3	0.0	0.5	0.0	1.5	1.2	0.2	1.9	0.4	1.3	1.9	0.5
Oman	0.0	0.0	0.0	0.0	0.0	0.2	1.0	1.0	0.5	1.0	0.7	0.3	1.0	1.1	0.1
Qatar	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.3	0.7	3.9
Saudi Arabia	3.6	0.9	2.5	3.8	9.5	3.3	2.0	0.5	2.0	1.0	0.6	3.0	9.4	15.9	16.1
Syria	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	1.0
Turkey	7.5	12.6	21.6	20.9	27.8	31.4	50.9	72.1	42.2	52.7	41.3	42.5	54.3	65.3	65.5
United Arab Emirates	0.0	1.0	1.0	1.5	0.3	0.4	0.4	2.8	1.8	1.0	1.4	0.6	2.4	0.5	0.3
West Bank	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yemen	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	1.0	0.0	0.2	1.0	0.0	0.0	0.0
Africa	43.5	54.4	54.3	61.7	68.4	70.8	83.3	91.4	95.7	79.8	90.3	142.6	143.0	155.9	178.0
Algeria	1.7	3.4	1.3	1.2	0.0	3.3	5.7	6.2	5.7	2.0	6.5	7.5	8.3	14.8	10.1
Angola	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Benin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Botswana	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Burkina Faso	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.1	0.3	1.0
Burundi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Cameroon	0.3	1.9	0.0	0.0	0.0	0.0	1.5	0.8	0.0	0.0	0.4	0.0	1.4	0.4	0.0



Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Mali	0.0	0.0	0.0	0.0	1.3	1.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mauritania	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mauritius	0.0	1.0	1.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Morocco	0.3	5.6	2.0	1.9	1.6	4.2	4.9	6.9	2.7	3.1	2.0	3.2	1.3	1.8	1.1
Mozambique	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Namibia	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Niger	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.0	2.0	0.0	0.2	0.0
Nigeria	2.8	0.6	0.6	3.8	2.1	0.5	2.3	2.4	3.5	7.6	6.5	12.6	10.9	10.2	22.0
Rwanda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5
São Tomé and Príncipe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Senegal	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.0	0.0	1.7	0.0
Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sierra Leone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Somalia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Africa	35.9	35.4	42.0	38.5	46.1	43.3	52.5	50.8	61.7	50.7	50.4	62.1	68.2	68.8	72.6
Sudan	0.0	0.0	1.0	0.0	0.0	1.0	1.1	0.0	1.8	0.0	3.0	4.5	0.4	0.1	1.0
Swaziland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	0.0	0.0	0.0	0.1
Tanzania	1.0	0.0	0.0	0.0	2.0	3.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Togo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tunisia	0.0	0.0	0.0	0.0	0.0	3.1	2.3	3.2	2.8	1.5	4.0	1.2	5.6	3.9	5.3
Uganda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	1.1	0.1	1.0	0.8
Zambia	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.1
Zimbabwe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asia	1,034.5	1,128.9	1,021.3	1,098.9	1,025.3	1,187.4	1,475.1	1,719.8	1,760.1	1,640.9	1,729.4	1,556.2	2,108.8	2,180.4	2,156.3

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Afghanistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Armenia	5.4	6.7	2.8	3.1	10.9	9.8	13.9	11.4	10.3	9.5	16.2	7.7	20.8	7.1	9.4
Azerbaijan	0.0	2.0	4.2	5.7	1.3	3.3	1.6	4.3	6.4	3.6	2.1	2.8	1.8	2.5	4.1
Bangladesh	0.5	0.5	0.0	0.0	1.0	1.5	0.0	1.3	0.0	1.0	1.8	0.0	1.3	6.0	21.0
Bhutan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brunei	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Burma	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cambodia	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	190.5	210.8	241.5	281.6	244.4	305.6	395.6	546.1	625.1	571.0	578.5	578.5	714.9	868.5	867.0
Georgia	6.2	3.7	7.2	3.9	4.8	5.6	17.3	14.2	11.3	9.6	9.3	10.0	11.0	9.9	11.5
India	136.9	177.5	174.2	183.9	167.4	153.3	268.9	280.5	208.3	250.3	254.0	259.6	391.5	355.1	358.2
Indonesia	1.8	1.7	0.6	0.8	4.4	3.4	1.3	2.5	4.5	1.7	2.8	0.7	2.0	2.0	1.1
Japan	604.6	663.9	504.1	524.5	509.9	592.7	670.0	682.3	710.0	613.9	646.1	462.3	686.4	589.8	551.8
Kazakhstan	2.9	2.4	7.5	4.7	4.1	2.0	1.3	2.1	2.1	3.8	2.3	1.3	6.4	7.6	3.6
Kyrgyzstan	0.0	0.5	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.9	0.0	0.0	0.0	0.0	0.1
Laos	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaysia	1.0	0.0	0.0	0.0	0.0	0.5	0.0	2.8	1.3	0.8	5.0	7.0	2.3	4.7	6.3
Maldives	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mongolia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.0	0.1	0.4	0.0	0.0	0.2
Nepal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	1.0	0.3	0.8	0.5	1.0	0.7
North Korea	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	0.0	0.0	0.5	0.0	0.0	2.1	1.1	1.9	1.3	4.5	4.0	12.0	13.3	29.0	38.2
Philippines	0.0	0.0	0.1	0.5	1.0	2.8	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0
Singapore	0.0	0.8	0.0	0.0	0.8	2.3	0.0	6.8	1.4	0.6	2.4	0.5	0.9	1.4	0.5
South Korea	46.5	35.8	44.8	44.1	41.0	55.0	67.4	94.6	111.9	100.8	131.5	137.1	167.8	189.6	191.7



# National Science Board | Science & Engineering Indicators 2016

Region/country/economy	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sri Lanka	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0
Taiwan	23.4	18.2	24.9	31.9	24.8	35.9	26.7	46.4	53.5	57.5	57.8	64.9	69.3	89.4	73.2
Tajikistan	4.3	0.5	1.5	3.0	3.8	4.0	0.0	0.6	1.4	2.1	2.4	0.8	1.3	1.2	1.7
Thailand	1.3	0.2	0.0	6.0	3.6	2.1	5.1	7.2	4.3	3.8	4.6	1.7	8.6	5.9	7.5
Turkmenistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Uzbekistan	8.7	3.3	7.3	3.4	2.4	5.3	4.4	6.3	4.9	3.4	5.7	7.5	6.3	5.6	6.9
Vietnam	0.1	0.5	0.1	0.0	0.0	0.0	0.4	2.1	0.0	1.0	2.4	0.6	2.3	3.6	1.4
Australia/Oceania	134.8	161.6	187.9	171.9	209.2	275.2	270.5	306.8	267.6	255.4	246.7	262.9	342.3	402.5	365.3
Australia	122.7	143.1	174.2	151.8	200.1	259.3	254.6	292.7	258.0	240.8	233.6	249.4	324.4	376.3	345.5
Cook Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fiji	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Kiribati	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Marshall Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Micronesia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nauru	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Zealand	12.1	18.5	13.7	20.0	9.2	15.9	16.0	13.8	9.6	14.6	13.1	13.5	17.8	26.2	19.6
Niue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Palau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Papua New Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Samoa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Solomon Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tonga	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuvalu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanuatu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Unassigned	92.5	80.8	97.7	100.1	57.6	19.0	64.1	55.6	38.7	37.7	21.5	17.2	8.2	15.8	14.1



EU = European Union.

NOTES: Article counts are from a selection of journals, books, and conference proceedings in S&E from Scopus. Articles are classified by their year of publication and are assigned to a region /country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a fractional-count basis. The sum of the countries/economies may not add to the world total because of rounding. Some publications have incomplete address information for coauthored publications in the Scopus database. The unassigned category count is the sum of fractional counts for publications that cannot be assigned to a country or economy.

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